



## ABSTRACT / ZUSAMMENFASSUNG / ABREGE

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A medical device and position sensor combination for use in medical applications comprises a position sensor having a core made of a high permeable material . The core material is made of a Wiegand effect material comprising a mixture of cobalt, vanadium, and iron. The position sensor has an outer diameter of approximately 0.4mm and is used in a medical device having an outer diameter of approximately 0.67mm.